



DELAWARE ELECTRIC CO-OP

"We Keep the Lights On"

P.O. Box 600  
14198 Sussex Highway  
Greenwood, Delaware 19950  
855-DEC-9090

www.delaware.coop

## **Delaware Electric Cooperative, Inc.**

### **Interconnection Application**

(For Use with Systems Less than 100 kW DC)

REVISED January 2018

Type of Application: Initial ☒ or Addition/Upgrade \_\_\_\_\_  
Ownership: Leased \_\_\_\_\_ or Member Owned ☒  
Account(s): Single ☒ or Aggregated \_\_\_\_\_

#### **1. DEC Member Information**

Name: Karen Pollard  
Address: 6236 Mud Mill Road  
Town: Camden Wyoming State: DE Zip: 19934  
DEC Account Number: 1637702  
Sq Ft of Residence: 3000 Electric Heat? Yes \_\_\_\_\_ No ☒

#### **2. Equipment Contractor Information**

Name: Star Enrg  
Address: 5700 Kirkwood Highway  
Town: Wilmington State: DE Zip: 19808  
Email: Solar@StarEnrg.com Phone: 302-397-8917

#### **3. Electrical Contractor Information (If different from above)**

Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
Town: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
Email: \_\_\_\_\_ Phone: \_\_\_\_\_



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#### **4. Facility Information (If different from above)**

Address: 6236 Mud Mill Road

Town: Camden Wyoming State: DE Zip: 19934

Nearest DEC equipment tag number: \_\_\_\_\_

#### **5. General Service Requirements**

What size service is required for this system?

Same as existing X 200A \_\_\_\_\_ 320A \_\_\_\_\_ 400A \_\_\_\_\_ 600A \_\_\_\_\_ CT Metering \_\_\_\_\_

If this is a new account for the sole purpose of this Generating System, what Voltage/Phase will be required?

120/240V – 1Ø \_\_\_\_\_

120/208V – 1Ø \_\_\_\_\_

120/208V – 3Ø \_\_\_\_\_ (Consult DEC before designing 3Ø systems)

277/480V – 3Ø \_\_\_\_\_ (Consult DEC before designing 3Ø systems)

#### **6. Application Fee**

The application fee is \$50.00 per application for new or upgraded systems 25 kW DC or less. For systems over 25 kW DC the fee will be \$50.00 plus \$1.00 for each kW DC over the initial 25 kW DC. The application fee for systems where accounts will be aggregated is \$125 per application regardless of kW DC size. All Interconnection Applications submitted to DEC shall be accompanied with the appropriate fee made payable to DEC. The application fee is non-refundable. Applications returned for incomplete information will be subject to an additional \$50 application fee when resubmitted. No applications will be considered without the application fee. Returned checks will be assessed an additional fee based on DEC's Returned Check Policy.



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#### **7. Equipment Information**

Is this equipment powered from a renewable source? Yes X No     

Type of energy source:

Solar X Wind      Diesel      Natural Gas      Fuel Oil      Other     

Will excess power be exported to DEC? Yes X No     

(Typical) Maximum export: 11.5 kW DC/AC

24 month average usage (kWh)                      (monthly) Forecast monthly production (kWh) 1344

(Note: The forecast monthly production MUST be completed using **4.5 peak sunlight hours per day**)

Generator (or solar collector) Manufacturer, Model Name, and Number: Silfab SLA-M 300 Wp

(A copy of the generator nameplate and manufacturer's specification sheet may be substituted)

Quantity of PV Modules: 54 Size of PV Modules: 300

Inverter Manufacturer, Model Name, and Number: Fronius USA Primo 12.5

(A copy of the inverter nameplate and manufacturer's specification sheet may be substituted)

Quantity of Inverters: 1

Please fill out the Initial Rating information if there is currently no Generating System on-site. If adding a Generating System to an existing system, fill out the Initial Rating information, the Added Rating information, and the Total Rating information.

#### **Initial Rating:**

DC System Design Capacity	<u>16.2</u> (kW)	
AC System Design Capacity	<u>12.5</u> (kW)	<u>12.95</u> (kVA)

#### **Added Rating:**

DC System Design Capacity	<u>            </u> (kW)	
AC System Design Capacity	<u>            </u> (kW)	<u>            </u> (kVA)

#### **Total Rating:**

DC System Design Capacity	<u>16.2</u> (kW)	
AC System Design Capacity	<u>12.5</u> (kW)	<u>12.95</u> (kVA)



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In order to comply with Delaware State Law regarding output of an interconnection facility, DEC uses the following formula:

- |  |       |  |
|--|-------|--|
| 1. Enter the 24 month average usage (kWh): | _____ | (Per month)                                  |
| 2. Multiply line 1 by 110%:                | _____ | (Maximum output permitted by Delaware law)   |
| 3. Enter maximum inverter rating (kVA):    | _____ | (From nameplate, at appropriate voltage)     |
| 4. Multiply line 3 by 4.5 (hours):         | _____ | (This is the maximum kWh possible per day)   |
| 5. Multiply line 4 by 365 (days):          | _____ | (This is the maximum kWh possible per year)  |
| 6. Divide line 5 by 12 (months):           | _____ | (This is the maximum kWh possible per month) |

*If line six (6) is equal to or less than line two (2), the system, as designed, will be approved by DEC.*

For DEC members that have greater than 12 months of usage history and less than 24 months of usage history, the most recent 12 months of usage history shall be used to obtain the average monthly usage necessary for calculating the inverter size as described above.

For DEC members that have no usage or less than 12 months of usage history, please consult DEC before designing the Generating System.

#### **8. Generator Disconnect Switch**

A lockable disconnect device shall be installed within three (3) feet of the DEC meter and accessible at all times by DEC personnel. The cost of this device and the installation thereof shall not be the responsibility of DEC.

#### **9. Equipment Certification**

Equipment that utilizes inverter technology must be compliant with IEEE 929 and Underwriters Lab. UL1741. Equipment that utilizes a rotating machine must be compliant with DEC's *Technical Requirements for Parallel Operation of Member Owner Generation* document. **By signing below, the Equipment Contractor certifies that the installed generating equipment meets the appropriate preceding requirement(s) and can supply documentation that confirms compliance.**

Company: Star Enrg

Name (print): Stephanie Jenkins, Operations Manager

Date: 06/19/2019

Signature: \_\_\_\_\_



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#### **11. Signatures**

##### **DEC Member**

I hereby certify that, to the best of my knowledge, all the information provided in this Interconnection Application is true and correct.

Name (print): Karen Pollard

Date: 6/24/19

Signature: [Signature]

##### **Equipment Contractor**

I hereby certify that the information regarding the Generating System is complete, accurate, and shall be installed as designed in accordance with all applicable standards.

Company: Star Enrg

Name (print): Stephanie Jenkins, Operations

Date: 6-27-19

Signature: [Signature]

##### **Electrical Contractor (if different from above)**

I hereby certify that all wiring and installation of associated equipment shall be completed in compliance with all applicable NEC codes.

Company: \_\_\_\_\_

Name (print): \_\_\_\_\_

Date: \_\_\_\_\_

Signature: \_\_\_\_\_

#### **12. PRELIMINARY Approval to Proceed with Interconnection**

Returned without review due to insufficient information: \_\_\_\_\_

Delaware Electric Cooperative: Has Approved \_\_\_\_\_ Has Not Approved \_\_\_\_\_ this preliminary application.

Reason for not approving: \_\_\_\_\_

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Signature: \_\_\_\_\_